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Référence du dossier du déposant ou du mandataire B 14099.3 SL

Demande internationale n° PCT/FR2003/001696

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NOTIFICATION IMPORTANTE

Date du dépôt international (jour/mois/année) 06 juin 2003 (06.06.2003)

Déposant

COMMISSARIAT A L'ENERGIE ATOMIQUE etc

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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference B 14099.3 SL	FOR FURTHER ACTION		ation of Transmittal of International examination Report (Form PCT/IPEA/416)
ernational application No. PCT/FR2003/001696	International filing date (Joyd) 06 juin 2003 (05.05	:	Priority date (day/month/year) 11 juin 2002 (11.06.2002)
nternational Patent Classification (IPC) of C23C 14/04, 14/12			
Applicant CO	OMMISSARIAT A L'ENERO	GIE ATOMI	QUE
and is transmitted to the applicar			ational Preliminary Examining Authority neet.
amended and are the basi 70.16 and Section 607 of		ining rectificat	n, claims and/or drawings which have been ions made before this Authority (see Rule
3. This report contains indications I Basis of the repo	_		
II Priority	ent of opinion with regard to novel	y, inventive ste	p and industrial applicability
IV Lack of unity of V Reasoned statem citations and ex		l to novelty, in	ventive step or industrial applicability;
VI Certain docume			
** <u>-</u>	in the international application tions on the international application	n	
Date of submission of the demand	Date	of completion o	f this report
02 janvier 2004 (02	.01.2004)	18 O	ctober 2004 (18.10.2004)
Name and mailing address of the IPEA	/EP Auth	orized officer	
Facsimile No.	Teler	hone No.	



Internation No.

PCT/FR2003/001696

I. B	asis c	of the report						
1. V	With 1	egard to the	elements of the international application:*					
	\boxtimes	the internation	onal application as originally filed					
Ī	\boxtimes	the descripti	on:					
_		pages	1-37	, as originally filed				
		pages		, filed with the demand				
		hudes -	, filed with the letter of	and the second s				
	\boxtimes	the claims:						
Ŀ		pages	1-33	, as originally filed				
		pages	, as amended (together with	any statement under Article 19				
		pages		, filed with the demand				
		pages	, filed with the letter of					
ſ	X	the drawing	s:					
•		_	1/6-6/6	, as originally filed				
•				, filed with the demand				
		pages	, filed with the letter of					
ſ	T t	he sequence l	listing part of the description:					
		_		, as originally filed				
		pages						
		pages	, filed with the letter of					
	the in	the languag the languag	e language, all the elements marked above were available or furnished to this Autopplication was filed, unless otherwise indicated under this item. ere available or furnished to this Authority in the following language ge of a translation furnished for the purposes of international search (under Rule 23 ge of publication of the international application (under Rule 48.3(b)). The second second search is a second second search (under Rule 23 ge of the translation furnished for the purposes of international preliminary examples of the translation furnished for the purposes of international preliminary examples.	which is:				
3.	With	regard to minary exam	any nucleotide and/or amino acid sequence disclosed in the international ination was carried out on the basis of the sequence listing:	application, the international				
		contained i	n the international application in written form.					
	\square	filed togeth	er with the international application in computer readable form.					
	\sqsubseteq	furnished s	ubsequently to this Authority in written form.					
	닖	furnished s	ubsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	Ш	The staten been furnis	nent that the information recorded in computer readable form is identical to the	ne written sequence listing has				
4.		The amend	lments have resulted in the cancellation of:					
		the	description, pages					
			claims, Nos					
ĺ		the	drawings, sheets/fig					
5.		This report	has been established as if (some of) the amendments had not been made, since the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	hey have been considered to go				
	in th and	nis report as 70.17).	ets which have been furnished to the receiving Office in response to an invitation of configurally filed" and are not annexed to this report since they do not configurately.	ntain amendments (Rule 70,16				
**	Any	replacement .	sheet containing such amendments must be referred to under item 1 and annexed t	o this report.				

Interna	application No.
PC	Г/FR2003/001696

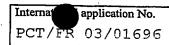
IV. Lack of unity of invention						
1. In response to the invitation to restrict or pay additional fees the applicant has:						
restricted the claims.						
paid additional fees.						
polá additional feer under profest.						
neither restricted nor paid additional fees.						
institute restricted from parte additional sector.						
This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.						
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is						
complied with.						
not complied with for the following reasons:						
See supplemental sheet						
·						
4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:						
all parts.						
the parts relating to claims Nos						

Internat application No.
PCT/FR 03/01696

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)							
Continuation of:							
See	separate	sheet.					·
		·		·			
·			•				
				·			

Internal application No.
PCT/FR 03/01696

Statement					
Novelty (N)		Claims		1-33	YES
		Claims			NO
Inventive step (IE)		Claims-		1-33	YES
		Claims			 _ NO
Industrial applicabi	lity (IA)	Claims		1-33	YES
		Claims			NO
Citations and expla	nations				
See separa	te sheet	•			
		•			
				•	
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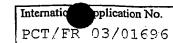


Supplemental Box

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- 1. Reference is made to the following documents:
 - D1: EP-A-1 132 493 (KIDO JUNJI; INTERNAT MFG AND ENGINEERING S (JP)) 12 September 2001 (2001-09-12);
 - D2: SCHULZ-EKLOFF G ET AL: "Chromophores in porous silicas and minerals: preparation and optical properties" MICROPOROUS AND MESOPOROUS MATERIALS, ELSEVIER SCIENCE PUBLISHING, NEW YORK, US, vol. 51, no. 2, 30 January 2002 (2002-01-30), pages 91-138, XP004335458 ISSN: 1387-1811;
 - D3: VAN KONINGSVELD H ET AL: "Preparation and structure of crystals of zeolite H-ZSM-5 loaded with p-nitroaniline" MICROPOROUS MATER;
 MICROPOROUS MATERIALS MAR 1997 ELSEVIER SCIENCE B.V., AMSTERDAM, NETHERLANDS, vol. 9, no. 1-2, March 1997 (1997-03), pages 71-81, XP002235048;
 - D4: HOFFMANN K ET AL: "Optical characterization of organized adsorbates in zeolite microcrystals: Polarized absorption spectroscopy" ZEOLITES, ELSEVIER SCIENCE PUBLISHING, US, vol. 16, no. 4, 1 April 1996 (1996-04-01), pages 281-286, XP004033291 ISSN: 0144-2449;
 - D5: HOFFMANN K ET AL: "PHOTOINDUCED SWITCHING IN NANOCOMPOSITES OF AZOBENZENE AND MOLECULAR SIEVES" ADVANCED MATERIALS, VCH



Supplemental Box

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VERLAGSGESELLSCHAFT, WEINHEIM, DE, vol. 9, no. 17, 1 June 1997 (1997-05-01), pages 567-570, XP000694707, ISSN: 0935-9648;

D6: JACOBS G ET AL: "Characterization of the morphology of Pt clusters incorporated in a KL zeolite by vapor phase and incipient wetness impregnation. Influence of Pt particle morphology on aromatization activity and deactivation" APPLIED CATALYSIS A: GENERAL, ELSEVIER SCIENCE, AMSTERDAM, NL, vol. 188, no. 1-2, 5 November 1999 (1999-11-05), pages 79-98, XP004271986 ISSN: 0926-860X;

D7: US-A-4 882 232 (BUGNET BERNARD ET AL) 21 November 1989 (1989-11-21);

D8: MACCRAITH B D ET AL: "Sol-gel coatings for optical chemical sensors and biosensors"

SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A.,

LAUSANNE, CH, vol. 29, no. 1, 1 October 1995

(1995-10-01), pages 51-57, XP004000851 ISSN: 0925-4005.

2. Objection with regard to the clarity of claims 27-33

Even though the subject matter of claim 27 relates to a "use" of a method or a device, a claim relating to a "use" must, for the purpose of the

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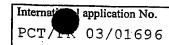
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international preliminary examination, be considered to be equivalent to a method claim (cf. the PCT Guidelines III-4.9). As a result, even though claims 1 and 27 have been drafted as separate independent method and use claims, it appears that claim 27 is, in fact, a method claim dependent on claim 1. However, the varied terminology used to define the subject matter of claim 27 casts doubt on the dependency of claim 27 on claim 1. These claims do not, therefore, fulfil the requirement of PCT Article 6.

3. Unity of invention

As far as the device as per independent claim 13 is concerned, its definition in terms of the use to which it is put must be interpreted as meaning, simply, that the device is suitable for implementing the method as per claim 1 (cf. the PCT Guidelines III-4.8a). Therefore, it appears that the claimed device does not have any specific features related to the use to which it is put that would enable it to be differentiated from a device such as the one described in D1, which, moreover, has all of the features mentioned in claim 13. follows that D1 deprives independent claim 13 of novelty, and the method disclosed in independent claims 1 and 27 is not linked by a common inventive concept to the device disclosed in claims 13-26 (PCT Rule 13).



Supplemental Box

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4. Novelty

D2 describes all of the methods used to incorporate chromophores into porous sol-gel silicas, molecular sieves and clay minerals. Vaporising the chromophores so that they are adsorbed, in vapour form, into the pores of a porous material is only described for zeolite molecular sieves that have not been produced using the sol-gel method. Said document proposes a liquid-phase adsorption technique (see page 101) for incorporating chromophores into a mesoporous molecular sieve produced using the sol-gel method.

Documents D3 to D5 describe the incorporation of organic compounds into zeolite crystals by means of vapour-phase adsorption.

Document D6 describes the incorporation of platinum into the pores of a zeolite in a precursor impregnation step followed by a step of decomposition by calcining.

D7 describes a method for producing a porous metal structure, in which a felt or fabric substrate is vacuum-metallised.

Finally, D8 describes a method for incorporating an organic compound into the pores of a microporous sol-gel material for chemical sensors. The compound is incorporated into the solution during

Supplemental Box

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Continuation of: Separate sheet

the process for producing microporous materials by a sol-gel technique. Said document specifies that it is indeed possible to dope a microporous sol-gel material after it has been produced but that such a subsequent doping method does not allow the organic compound to be encapsulated in the pores. D8 does not specify that such subsequent doping includes the vaporisation or sublimation of the compound.

It follows that the subject matter of claims 1-12 and 27-33 is novel over the available documents.

5. <u>Inventive step</u>

The incorporation of a compound by vaporisation or sublimation into mesoporous or microporous materials produced using the sol-gel method cannot be derived from the available documents, considered individually or in combination. Furthermore, the teaching of D8 would even lead a person skilled in the art away from the subject matter of the present application. As a result, the subject matter of claims 1-12 and 27-33 involves an inventive step.

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